

ABSTRACT OF THE DISCLOSURE

The present invention discloses cloning of tocopherol associated protein TAP-38 and deletion mutants of TAP-46. TAP-38, which shares homology with the previously identified TAP-46, enhances the apoptotic inducing properties of tocopherol based compounds, and blockage of TAP-38 or TAP-46 reduces the effectiveness of tocopherol based compounds. Thus, delivery of TAP-38 and TAP-46 cDNA by aerosol liposome/transfection/infection methods, separately or in combination with tocopherol-based apoptosis-inducing agents as well as with other chemotherapeutic agents, would be useful for treatment and prevention of cellular proliferative diseases and disorders.